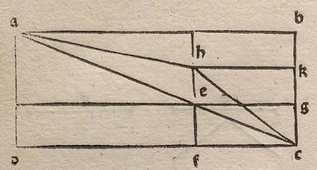


paralellograma sunt equiangula constat per diffinitionē similium superficiex.g.b. esse sile.b.d. Silr quoq; modo ꝓbar.f.k.eē sile eidē. ꝓpt hoc q.b.a.ad.a.k.t.d.a ad.a.f.ē sicut.c.a.ad.a.e.p scōaz bui9 t cōūctā ꝓportionalitatē: q̄re p.20.bui9.f.k ē etiā sile.g.b. sicq; pz totū.

Propositio .23.

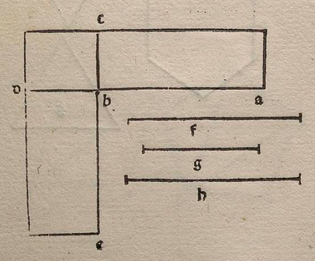
SI in suo spacio palellogramū partiale diffinctum toti paralellogramo simile.atq; scōm suū illius esse fuerit:circa eiusdem diametrum consistit.

¶Sit ut in paralellogramo.b.d. sit distinctum paralellogramū. f.g. qō sit sibi simile.t scōm suū eē.i.participans cū eo in angulo.c. dico q; paralellogramū.f. g.consistit circa diametrū paralellogrami .b.d.t. est hec conuersa precedentis.producā eni.a.e.c.que si fuerit diameter paralellogrami.b.d.cō stat propositum.Sin autem sit.a.b.c.diameter eius.t ducaf.b.k. equidistans.f. c.eritq; per premissam paralellogramū.f.k.simile palellogramo.b.d.ergo per conuersionē diffinitionis similium superficiex ꝓportio.b.c.ad.k.c.ē sicut.d.c.ad.f.c. sed per eandē cōuersionē dicte diffinitionis ꝓportio.b.c.ad. g.c.ē sicut.d.c.ad.f.c propter id qō palellogramum.f.g.positum est simile paralellogramo.b.d.ergo per 11.quinti proportio.b.c.ad.g.c.est sicut.b.c.ad.k.c. vtraq; eni est sicut.d.c.ad.f.c quare p secūdā ptē none quinti.g.c.est equalis.k.c.pars videlicet toti quod ē impossibile.Erit igitur.a.e.c. diameter palellogrami.b.d.quod est propositum.

Propositio .24.

OMnium duarum superficierum equidistantium laterum quarum vnus angulus vnius vni angulo alterius equalis ꝓportio alterius ad alteram ē que ꝓducitur ex duab9 proportionibus suox latex duos equos angulos ꝓtinentium

¶Sint due supficies equidistantiū laterū.a.c.t.e.d.sitq; angul9.b. vnius equalis angulo.b.alterius. dico q; ꝓportio vnius ad alterā ꝓducta est ex proportione.a.b.ad.b.d.t.c.b.ad.b.e. disponā enim has duas supficies penitus sicut disposui eas in..13.huius.adiuncto ad vtrāq; palellogramo.c.d.t ponam ut ꝓportio linee.f.ad lineā.g.sit sicut.a.b.ad.b.d.t.g.ad.b.sicut.c.b.ad.b.e.qualiter eni hoc fiat. dictum est sup:a.10.huius:eritq; per primā huius.t.11.quinti. a.c. ad.c.d.sicut.f.ad.g.t.c.d.ad.d.e.sicut.g.ad.b.quare p.22.quinti erit in equa ꝓportionalitate.a.c.ad.d.e.sicut.f.ad.b.t quia.f.ad.b.producitur ex.f.ad.g.t.g. ad.b.vt dictū ē in fine expositionis.11.diffinitōis q̄nti.erit ut.a.c.ad.d.e.ꝓducaf ex eisdē: q̄re cōstat ꝓpositū.

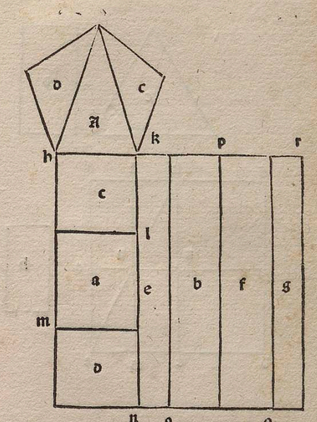


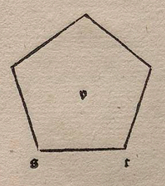
Propositio .25.

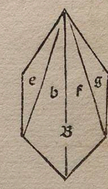
DAte supficiei similem alijq; ꝓposite equalem designare.

¶Sint ꝓposite due supficies rectilince.A.penthagona.B.exagona. volo facere vnā supficiem silem.a.t equalē.b.vtrāq; ꝓpositaz superficiex resoluo in triangulos.A quidez i triangulos.c.a.d.B.vero i triangnlos.e.b.f.g.t sup basim supficiei.a.que sit.b.k.cōstituo secūdū doctrinā.44.primi superficiē equidistantium laterum rectangulam equalem c.que sit.b.l.t.l.m.equalem.a.t.m.n.equalem.d.ut sit tota superficies equidistātium laterum.b.n.constituta super basim .b. k. equalis penthagono.a. Eodem modo super lineam.k.n.que est 5m latus huius superficiei constituo aliā superficiem rectangulā eqlem exagono.b.q: facio.k.o.equalem.c.t.o.p.equalē.b.t.p.q equalē.f.t.q.r.equalem.g.vt sit tota rectangula superficies.n.r.equalis exagono.

b.t pono per.9.huius lineam.s.t.proportionalē inter lineam.b. k.t lineā.k.r. t super eam scōm doctrinam.19.huius constituo superficiem.v. simulem superficiei a.dico ipsā esse quā querimus t equalem superficiei.b.cum enim tres linee.b.k.s.t. t.k.r.sint continue proportionales.t super primā t secūdā sunt constitute superficies similes videlicet.a.t. v.erit per corrē.17.huius.a.ad.v.sicut. b.k. ad.k.r. quare per primam huius sicut.b.n.ad.n.r.t ideo per primam partem septime q̄nti sicut.a.ad.n.r.t propter hoc per secundam partem eiusdem sicut.a. ad.b. itaq; per scōam. partē.9.quinti.v.est equalis.b.qō est propositum.¶Qō etiā possum9 ex pmutata ꝓportionalitate facile ꝓbare.quia cum sit. a.ad.v.sicut.b.n.ad.n.r. erit permutatim.a.ad.b.n.sicut.v.ad.n.r.t quia.a.est equalis.b.n.erit.v.equalis n.r.quare.v.est etiā equalis.b.per hanc cōmunē scientiam:quecunq; vni t eidem sunt equalia inter se sunt equalia. Nō est auté necessariū vt superficies.b. l.l. m.t.m.n.equidistantium laterum equales triangulis.c.a.d.aut supficies.k. o.o. p.p.q.t.q.r.equales triangulis.e.b.f.g.sint rectangule. sed ut angulus extrinsec9 superficici.l.m.sit equalis angulo intrinseco superficici.l.b.t extrinsecus.m.n.intrinseco.m.l. Similiter quoq; ut extrinsecus superficici.k.o.sit equalis intrinseco superficiei.b.n.t extrinsecus.o.p.intrinseco.k.o.sicq; de ceteris. Cum enim sic fuerit erit vnaquaq; linearum.k.n.t sibi opposita.b.m.itemq;.b.r.t sibi opposita.n q.linea vna per vltimam partem.29.primi:t per.14.eiusdem: quotiens oportuerit equaliter repetitas:propter id qō omnes superficies.b.l.l.m.t.m.n. Itemq;.k o.o.p.p.q.t.q.r.sunt equidistantium laterum t angulus extrinsec9 cuiusq; sequētis est equalis intrinseco eā pcedentis:quare due supficies.b.n.t.n.r.erunt equidistantium laterū t inter lineas equidistantes t equalis altitudinis. Cetera ergo argue vt prius:



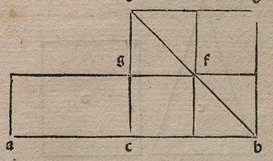


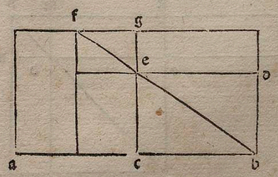


Propositio .26.

SUper dimidiū date linee palellogramū designatum mauns ē eo palellogramo cui date linee applicato deest ad cōpletionē linee sil'e t sup diametrū consistens super dimidium collocati.

¶Sit data linea.a. b.sup cuius dimidiū.c.b. cōstituaf palellogramū c.d.cuius diameter.b.e.t ad lineā.a.b.applicet palellogramū.a.f.cuius vnū lat9 secet.e.c.in puncto.g.ita q; ad cōplementū totius linee.a.b. desit supficies. f.b.q̄ sit similis:supficiei.c.d.t consistēs circa diametrū eius:dico tunc q; palellogramū c.d.est maī palellogramo.a.f. Est eni p primā huius.a.g.equale.g. b.t p.43.primi.c.f.equale.f.d.ergo per hāc cōmunē scientiam:si equalibus equalia addas.tc. erit gnomo cōstans ex tribus palellogramis q̄ sunt.c.f.f.b.t.f.d.eq̄lis palellogramo.a.f.quare palellogramū.c.d.ē maius palellogramo. a. f.i palellogramo.e.f. qō ē propositū. Idē etiā cēt si supficies.a.f.fieret altior supficie.c.d.vt videre potes in secunda figura i qua etiā per primā huius.a.g.ē equale.g.b. demptis itaq; vtriq; duobus supplemētis superficiei.f.b.excedet palellogramū.c.d. palellogrammum.a.f.in palellogramo.f.e.





Propositio .27.

TRilatera superficie ꝓposita equū ei sup quēlibet assignatā lineā palellogramū designare cui desit ad cōplēdā lineam alij supficiei ꝓposite sil'e palellogramū qō scōm einsdē suum esse paralellogramo super dimidium date linee collocato minime maius existat.